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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,428	09/16/2003	Randall E. Aull	003797.00621	2075	
	7590 10/18/200 YITCOFF, LTD.	7	EXAMINER		
ATTORNEYS FOR CLIENT NOS. 003797 & 013797 PHAM, TAMMY T				AMMY T	
1100 13th STR SUITE 1200	EEI, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20005-4051	•	2629		
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			10/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		oplication No.	Applicant(s)				
		0/662,428	AULL ET AL.	AULL ET AL.			
		caminer	Art Unit				
		ımmy Pham	2629				
The MAILING DATE of this comp Period for Reply	munication appears	s on the cover sheet	with the correspondence addres	is			
A SHORTENED STATUTORY PERIO WHICHEVER IS LONGER, FROM TH - Extensions of time may be available under the provi after SIX (6) MONTHS from the mailing date of this - If NO period for reply is specified above, the maximu - Failure to reply within the set or extended period for Any reply received by the Office later than three mo earned patent term adjustment. See 37 CFR 1.704	E MAILING DATE sions of 37 CFR 1.136(a). communication. Im statutory period will ap reply will, by statute, caus of the mailing date	OF THIS COMMUI. In no event, however, may oply and will expire SIX (6) M se the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	·			
Status							
1) Responsive to communication(s) filed on <u>28 July 2</u>	<u>2007</u> .					
2a) ☐ This action is FINAL .	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condi	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the pr	actice under Ex pa	arte Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Disposition of Claims							
4) ☐ Claim(s) <u>1-44</u> is/are pending in the day Of the above claim(s) <u>1-13 and 5</u> (5) ☐ Claim(s) <u>17-22, 39-44</u> is/are allow 6) ☐ Claim(s) <u>14-16 and 36-38</u> is/are 7) ☐ Claim(s) is/are objected the distribution of the day of	nd 23-35 is/are wit wed. rejected. o.		eration.				
Application Papers							
9)☐ The specification is objected to b	y the Examiner.						
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) inclu 11) The oath or declaration is objected							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a classification. a) All b) Some complete copies of the price copies of the price copies of the price copies of the certified copies of the certified copies of the certified copies of the certified copies cop	of: prity documents ha prity documents ha pies of the priority of pational Bureau (Po	ave been received. ave been received in documents have bee CT Rule 17.2(a)).	Application No en received in this National Stag	ge			
Attachment(s) 1) Notice of References Cited (PTO-892)		4) 🗌 Intervies	v Summary (PTO-413)				
Notice of Draftsperson's Patent Drawing Revie Information Disclosure Statement(s) (PTO/SB. Paper No(s)/Mail Date		Paper N	o(s)/Mail Date f Informal Patent Application				

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DETAILED ACTION

1. Applicant's arguments, see Appeal Brief, filed 5 March 2007, have been fully considered and are persuasive. The Final Rejection of 29 August 2007 has been withdrawn.

Response to Amendment

2. Claims 1-13, 23-35 have been withdrawn. Claims 14-22, 36-44 are considered below.

Allowable Subject Matter

3. In view of the Appeal Brief filed 5 March 2007, claims 17-22, 39-44 are allowed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. <u>Claims 14-16, 36-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over</u>

 <u>Baker et al. (thereon referred to as "Baker1") (US Patent No: 5,675,329) in view of Baker et al. (thereon referred to as "Baker2") (US Patent No: 5,299,125).</u>
- 5. In regards to independent claims 14, 36, Baker1 teaches of a method of processing data received from a keyboard (Fig. 1, item 11) having a plurality of keys (Fig. 1, part of item 11), the plurality of keys (Id.) including multiple keys (Id.) having respective characters assigned thereto

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(Id.), the plurality of keys (Id.) further including one or more force-sensing keys (column 2, lines 34-38), receiving a keyboard data set (message that is part of Fig. 2; steps 160, 170, 180, where the keyboard is able to communicate data into the system) reporting into the system for multiple keys (Fig. 1, part of item 11) of the plurality pressed by a keyboard user. Baker1 further teaches of detecting the key force data (Fig. 2, step 140) and key identification data (Fig. 2, steps 160, 170; column 3, lines 13-16).

- 6. Baker1 fails to teach of parsing various keyboard data into an ordered list; and associating various keyboard data based on the orders in which the various data appeared in the keyboard data set.
- Raker2 teaches of parsing various keyboard data (words, morphemes, or phrases from the keyboard) into an ordered list (column 15, lines 45-53); and associating various keyboard data (words, morphemes, or phrases from the keyboard) based on the orders in which the various data (Id.) appeared in the keyboard data set (column 11, lines 63-2; the claim language remains broad and hence because Baker2 teaches that the parsing device is able to associate various keyboard data entry into a certain order, Baker2 reads upon the claim language as currently claimed).
- 8. It would have been obvious to one with ordinary skill in the art at the time the invention was made to use the parsing method as taught by Baker2 with the keyboard of Baker1 in order to be able to parse each sequences of input symbols into a correct message output (Baker2: column 6, lines 34-39).
- 9. In regards to claims 15, 37, Baker1 teaches of determining if reported key force data (message that is part of Fig. 2; steps 160, 170, 180, where the keyboard is able to communicate

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data into the system) contains a null indicator (Fig. 2, step 180, column 4, lines 16-19); and associating a null indicator (Id.) with a non-force-sensing key (Id., where the device is able to determine if a new key has been pressed (null indicator) and if a new key has not been pressed (non-force-sensing key).

- 10. In regards to claims 16, 38, Bakerl fails to teach that a null indicator is a zero value for key force data.
- 11. Applicant has not disclosed any specific advantage or criticality to having zero as the null indicator. As such, the zero value is an obvious matter of design choice.
- 12. It would have been obvious to one with ordinary skill in the art at the time the invention was made to have any value, including the claimed zero value, any value would perform equally well as a null indicator.

Response to Arguments

13. Applicant's arguments with respect to claims 14-16, 36-38 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammy Pham whose telephone number is (571) 272-7773. The

examiner can normally be reached on 8:00-5:30 (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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TP

1 October 2007

Tammy Pham

Patent Examiner
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SUMATI LEFKOWITZ SUPERVISORY PATENT EXAMINER

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